

Untitled

RESULT 2

ABU37845

ID ABU37845 standard; protein; 389 AA.

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AC ABU37845;

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DT 15-JUN-2007 (revised)

DT 19-JUN-2003 (first entry)

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DE Protein encoded by Prokaryotic essential gene #23372.

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KW Antisense; prokaryotic essential gene; cell proliferation; drug design;

KW BOND_PC; S-adenosyl methionine synthetase;

KW S-adenosyl methionine synthetase [Neisseria meningitidis Z2491]; met K;

KW putative S-adenosyl methionine synthetase;

KW putative S-adenosyl methionine synthetase [Neisseria meningitidis Z2491].

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OS Neisseria meningitidis.

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PN WO200277183-A2.

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PD 03-OCT-2002.

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PF 21-MAR-2002; 2002WO-US009107.

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PR 21-MAR-2001; 2001US-00815242.

PR 06-SEP-2001; 2001US-00948993.

PR 25-OCT-2001; 2001US-0342923P.

PR 08-FEB-2002; 2002US-00072851.

PR 06-MAR-2002; 2002US-0362699P.

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PA (ELIT-) ELITRA PHARM INC.

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PI Wang L, Zamudio C, Malone C, Haselbeck R, Ohlson KL, Zyskind JW

PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;

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DR WPI; 2003-029926/02.

DR N-PSDB; ACA41715.

DR PC: NCBI; gi 15793647.

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PT New antisense nucleic acids, useful for identifying proteins or screening

PT for homologous nucleic acids required for cellular proliferation to

PT isolate candidate molecules for rational drug discovery programs.

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PS Claim 25; SEQ ID NO 65769; 1766pp; English.

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CC The invention relates to an isolated nucleic acid comprising any one of
CC the 6213 antisense sequences given in the specification where expression
CC of the nucleic acid inhibits proliferation of a cell. Also included are:

CC (1) a vector comprising a promoter operably linked to the nucleic acid

CC encoding a polypeptide whose expression is inhibited by the antisense

CC nucleic acid; (2) a host cell containing the vector; (3) an isolated

CC polypeptide or its fragment whose expression is inhibited by the

CC antisense nucleic acid; (4) an antibody capable of specifically binding

CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular

CC proliferation or the activity of a gene in an operon required for

CC proliferation; (7) identifying a compound that influences the activity of

CC the gene product or that has an activity against a biological pathway

CC required for proliferation, or that inhibits cellular proliferation; (8)

CC identifying a gene required for cellular proliferation or the biological

CC pathway in which a proliferation-required gene or its gene product lies

CC or a gene on which the test compound that inhibits proliferation of an

CC organism acts; (9) manufacturing an antibiotic; (10) profiling a

Untitled

compound's activity; (11) a culture comprising strains in which the gene product is overexpressed or underexpressed; (12) determining the extent to which each of the strains is present in a culture or collection of strains; or (13) identifying the target of a compound that inhibits the proliferation of an organism. The antisense nucleic acids are useful for identifying proteins or screening for homologous nucleic acids required for cellular proliferation to isolate candidate molecules for rational drug discovery programs, or for screening homologous nucleic acids required for proliferation in cells other than *S. aureus*, *S. typhimurium*, *K. pneumoniae* or *P. aeruginosa*. The present sequence is encoded by one of the target prokaryotic essential genes. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WPO at ftp.wipo.int/pub/published_pct_sequences

Revised record issued on 15-JUN-2007 : Enhanced with precomputed information from BOND.

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SQ Sequence 389 AA;

Query Match 99.2% Score 1986; DB 1; Length 389;
Best Local Similarity 99.0% Pred. No. 1.1e-188;
Matches 385; Conservative 1; Msmatches 3; Indels 0; Gaps 0;

Qy	1	MSEYLFTSESVSEGH	PDKVADQVSDAI	LDAL	LAQDPKARVAAETLVNTGLCVLAGEI	TTT	60
Db	1	MSEYLFTSESVSEGH	PDKVADQVSDAI	LDAL	LAQDPKARVAAETLVNTGLCVLAGEI	TTT	60
Qy	61	AQVDYI	KVARETI	KRI	GYNSSELGF	DANGCAVG	VYYDQQSPDI
Db	61	AQVDYI	KVARETI	KRI	GYNSSELGF	DANGCAVG	VYYDQQSPDI
Qy	121	DQGLMFGYACDETPTL	MPFAI	YYSHRLMQR	SEL	RKDGR	LPLRPDAKAQLTVVYDSETG
Db	121	DQGLMFGYACDETPTL	MPFAI	YYSHRLMQR	SEL	RKDGR	LPLRPDAKAQLTVVYDSETG
Qy	181	KVKRI	DTVVLSTQHDPSI	AYEEL	KNAVI	EH	I
Db	181	KVKRI	DTVVLSTQHDPSV	GYEEL	KNAVI	EQ	I
Qy	241	QGDCGLTGRKI	I	VDTYGGAAPHGGGAFSGKDPSKVD	RSAAYACRYVAKNI	VAAGLATQQQ	300
Db	241	QGDCGLTGRKI	I	VDTYGGAAPHGGGAFSGKDPSKVD	RSAAYACRYVAKNI	VAAGLATQQQ	300
Qy	301	I	QVSYAI	GVAEPTSI	SI	DTFGTGKI	SEEKLI
Db	301	I	QVSYAI	GVAEPTSI	SI	DTFGTGKI	SEEKLI
Qy	361	AYGHFGREEPEFTWERTDKAAAL	RAAAGL	389			
Db	361	AYGHFGREEPEFTWERTDKAAAL	RAAAGL	389			